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# Service Cloud Chat Developer Guide

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# CHAPTER 1 About This Guide

Customize Chat to fit your company's needs. This guide provides several examples to help you understand and create customized chat windows, buttons, forms, and pages.


Chat lets service organizations connect with customers or website visitors in real time through a Web-based, text-only live chat. You can customize Chat to create a personalized chat experience for your customer service agents and the customers they serve using custom code. In this guide, we'll show you how to:

- [Customize deployments using the Deployment API.](#)
- [Customize the appearance of customer-facing chat windows using Visualforce pages and components.](#)
- [Create pre-chat forms to gather information from customers before they begin a chat with an agent.](#)
- [Create post-chat pages that appear to customers after a chat is complete.](#)

Additionally, you can customize these and other Chat components through Salesforce settings. For more information, see "Customize Your Chat Implementation" in the Salesforce help.

## CHAPTER 2 Prerequisites

Before you customize Chat, make sure:

- [Chat is enabled in your organization.](#)
  - Your administrator has granted you a Chat feature license. Although you can customize the product without a feature license, having one will allow you to access and test your customizations.
  - You've [created a Salesforce site and uploaded images as static resources for your chat buttons and windows](#). If you plan to customize Chat without using a Salesforce site, skip this step.
-  **Note:** When using a Salesforce site for Chat custom chat pages, avoid using the path “/liveagent” in the URL. This path sometimes causes errors with the incoming and outgoing chat notification sounds, so agents will be unable to hear their chat updates.

SEE ALSO:

[Create and Edit Salesforce Sites](#)

## CHAPTER 3 API Versions

Different methods and parameters are available in different versions of Chat's APIs. Before you begin developing with the Deployment API or the Pre-Chat API, make sure you're using the correct API version number in your code.

### Deployment API Versions

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You can find out what version of the Deployment API your organization uses from the deployment code that's generated after you create a deployment.

Summer '13 and earlier releases support version 28.0 of the Deployment API. The URL for API version 28.0 looks like this:

`https://hostname.salesforceliveagent.com/content/g/deployment.js`

Winter '14 supports version 29.0 of the Deployment API. The URL for API version 29.0 contains the version number:

`https://hostname.salesforceliveagent.com/content/g/js/29.0/deployment.js`

 **Note:** To use new methods and parameters in your deployments, you must update the deployment code on each of your Web pages to use the URL for version 29.0 of the Deployment API.

### Pre-Chat Information API Versions

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Winter '14 supports version 29.0 of the Pre-Chat API. The URL for API version 29.0 contains the version number:

`https://hostname.salesforceliveagent.com/content/g/js/29.0/prechat.js`

You can find your organization's hostname by looking in the deployment code that's generated after you create a deployment.

# CHAPTER 4 Customize Deployments with the Deployment APIs

Customize deployments using the Chat Deployment API.

A deployment is a place on your company's website that's enabled for Chat. A deployment consists of a few lines of JavaScript that you add to a Web page. Your organization can have a single Chat deployment or multiple deployments. For example, if you have a single service center that supports multiple websites, creating a separate deployment for each site enables you to present multiple chat windows to your visitors. Each deployment includes a chat window, which visitors use to chat with support agents.

The Deployment API is a JavaScript-based API that lets you customize your deployments to specify back-end functionality.

## Create Deployments

Create a deployment to host Chat on your website. Each deployment includes a chat window, which visitors use to chat with support agents.

## Log Deployment Activity with the Deployment APIs

Log the activity that occurs in a particular deployment.

## Customize Your Chat Window with the Deployment APIs

Customize the dimensions of your customer-facing chat windows. This doesn't apply for mobile-based browsers.

## Customize Chat Buttons with the Deployment APIs

Customize your chat buttons and set how chats start for your customers.

## Find and Create Records Automatically with the Deployment APIs

Use the Deployment API to search for or create Salesforce records—like a case, contact, account, or lead—automatically when an agent begins a chat with a customer.

## Customize Automated Chat Invitations with the Deployment APIs

Customize automated chat invitations that appear to customers on your website.

## Deployment API Code Sample

Test and preview how the Deployment API can help you customize your deployments.

## Create Deployments

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Create a deployment to host Chat on your website. Each deployment includes a chat window, which visitors use to chat with support agents.

You can customize your Chat deployments using the Deployment API to meet your company's needs. After completing these steps, the deployment code generates for you to place on the pages that you want to enable for chat and tracking. Pages with the deployment code are automatically tracked as part of the visitor's chat session, and they're shown to the agent in the Console when the visitor requests a chat. This tracking also enables automated invitations to be presented to customers.

To create a deployment:

1. From Setup, enter *Deployments* in the **Quick Find** box, then select **Deployments**.
2. Click **New**.
3. Enter a name for the deployment. This name, or a version of it, automatically becomes the *Developer Name*.
4. Enter a title for the chat window.

5. Select `Allow Visitors to Save Transcripts` to let visitors download a copy of the chat session.
6. If you want to use branding images that you've hosted on a Salesforce site, select the site to associate it with the deployment.
7. (Optional) In `Chat Window Branding Image`, select the graphic to appear in the chat window.
8. (Optional) In `Mobile Chat Window Branding Image`, select the graphic that visitors using mobile devices see in the chat window.
9. Click **Save**. Salesforce generates the deployment code.
10. Copy the deployment code and paste it on each Web page where you want to deploy Chat. For best performance, paste the code right before the closing body tag.



**Example:** For more information on creating a deployment, see [“Create Chat Deployments.”](#)

## Log Deployment Activity with the Deployment APIs

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Log the activity that occurs in a particular deployment.

Logging lets you store information about the activity that occurs within a customer's Web browser as they chat with an agent through a particular deployment. This is particularly helpful when you're implementing automated invitations and you want to test or troubleshoot your sending rules. You can add these methods as an additional script within the code that's automatically generated when you create a deployment.

Use the following deployment methods to enable logging on a particular deployment.

### `enableLogging`

Use the `enableLogging` deployment method to enable logging on a particular deployment. Available in API versions 28.0 and later.

## `enableLogging`

Use the `enableLogging` deployment method to enable logging on a particular deployment. Available in API versions 28.0 and later.

## Usage

Enables logging for a particular deployment, allowing your Web browser's JavaScript console to store information about the activity that occurs within a deployment. You can retrieve the information from your browser's developer console, so check the help for your browser if you're not sure how to find it.

## Syntax

```
liveagent.enableLogging();
```

## Parameters

None

## Messages for Logged Events

Message	Triggered	Meaning
System initialized. Waiting for the DOM to be ready.	When liveagent.init() is called, usually at page load	Chat endpoint URL, org ID and deployment ID have been set, now waiting for DOM to be ready before continuing.
No available event model. Exiting.	During liveagent.init(), if there is an error	This means no DOM event listener was found, which would be very rare. We would not be able to continue at this point, so it would be a hard stop.
DOM is ready. Setting up environment.	Upon DOM ready of the page	The page has fully loaded and the DOM is ready, so we perform our first "ping" to the server, which is to get the settings/information about the given deployment ID.
Setting state for button {Button ID} to online	When the state of a button has changed to online	The button is available for a chat request to be made.
Setting state for button {Button ID} to offline	When the state of a button has changed to offline	The button is not available for a chat request to be made.
Requesting new session	During the first ping to the server	No session ID cookie was found, so a new one must be generated. This means it was the first time visiting the site with this deployment code for this browsing session.
Reusing existing session	During the first ping to the server	A session cookie exists, so it is reused. This means the visitor has already been to this site during this browsing session (e.g., going from one page to another).
Received new session ID	As a response to the first ping	The server generated a new session ID, and it is being stored as a session cookie named "liveagent_sid."
Ping rate set to {Rate}ms	As a response to the first ping	Indicates how frequently (in milliseconds) the page will ping the Chat server. The default is 50000 (50 seconds). This effectively indicates when button refreshes will occur.
Pinging server to keep presence	When a ping to the server is made	Indicates the visitor is still connected to and pinging the Chat server, meaning no errors or disconnects have occurred.
Disconnecting from Chat	When an error occurs	An error was thrown, whether in response from the server or due to network connectivity issues. Indicates that the visitor will no longer ping Chat for this page load (i.e., they will need to refresh).

Message	Triggered	Meaning
Received updated Chat server url: {URL}! Consider updating this site's deployment code.	When an org has moved to a new core instance	The Chat instance specified in the deployment code is no longer valid for this org, so the new URL has been provided. For better performance, we recommend updating the deployment code if they receive this.
Server Warning: {Message}	A non-fatal exception occurred	A warning condition was encountered, but processing can continue. The message provides further details.
Server sent an anonymous warning	A non-fatal exception occurred	A warning condition was encountered, but processing can continue. No message was provided.
Server Error: {Message}	A fatal exception occurred	An error condition was encountered, and processing cannot be continued. The message provides further details.
Server responded with an error	A fatal exception occurred	An error condition was encountered, and processing cannot be continued. No message was provided.
Group Start: Invite {Button ID} Rule Evaluation	Rule evaluation has been triggered	Evaluation of the filter logic for the given invite button ID has begun. This means the button is online and available for chat, and the filter logic will be used to determine if it should be displayed/presented or not.
Filter Logic: {Filter Logic}	Rule evaluation has been triggered	An information log containing the string representation of the filter logic of the invite rules as specified in the admin setup area. Useful to understand how the rules will be evaluated.
Evaluating StandardInviteRule	When a standard rule is being evaluated	Standard rules are "Number of Page Views" and "URL Match." They are part of the out-of-the-box rules that are provided in the admin setup area.
Evaluating TimerInviteRule	When a timer-based rule is being evaluated	Timer-based rules are "Seconds on Page" and "Seconds on Site." They are part of the out-of-the-box rules as well, except these rules will be re-evaluated again in the future when the required number of seconds has passed if the criteria was not met the first time (e.g., on page load).
Evaluating CustomInviteRule	When a custom rule is being evaluated	"Custom Variable" rules allow variable names to be specified which will be compared against upon evaluating these

Message	Triggered	Meaning
		rules. The "setCustomVariable" API is used in conjunction with these to specify the value to compare with against the value specified in the admin setup area.
CustomInviteRule evaluation failed due to missing custom variable	When a custom rule is being evaluated	A "Custom Variable" rule was set up, but the "setCustomVariable" API was never called with this variable name specified, therefore the rule can not be evaluated.
Evaluate: {From Value} == {To Value}	When a rule with an "equals" comparator is being evaluated	A rule is being evaluated by comparing that the two values match exactly.
Not Equals - Evaluate: {From Value} != {To Value}	When a rule with a "not equal to" comparator is being evaluated	A rule is being evaluated by comparing that the two values do not match.
Starts With - Evaluate: {From Value} indexOf {To Value} == 0	When a rule with a "starts with" comparator is being evaluated.	A rule is being evaluated by comparing that the first value starts with the second value.
Contains - Evaluate: {From Value} indexOf {To Value} != -1	When a rule with a "contains" comparator is being evaluated	A rule is being evaluated by comparing that the first value contains the second value.
Does Not Contain - Evaluate: {From Value} indexOf {To Value} == -1	When a rule with a "does not contain" comparator is being evaluated	A rule is being evaluated by comparing that the first value does not contain the second value.
Less Than - Evaluate: {From Value} < {To Value}	When a rule with a "less than" comparator is being evaluated	A rule is being evaluated by comparing that the first value is less than the second value.
Greater Than - Evaluate: {From Value} > {To Value}	When a rule with a "greater than" comparator is being evaluated	A rule is being evaluated by comparing that the first value is greater than the second value.
Less or Equal - Evaluate: {From Value} <= {To Value}	When a rule with a "less or equal" comparator is being evaluated	A rule is being evaluated by comparing that the first value is less than or equal to the second value.
Greater or Equal - Evaluate: {From Value} >= {To Value}	When a rule with a "greater or equal" comparator is being evaluated	A rule is being evaluated by comparing that the first value is greater than or equal to the second value.
Evaluating Atom Node: {Rule ID}	When a rule is being evaluated	Indicates that an actual rule is being evaluated.
Group Start: Evaluating And Node	When two rules are being evaluated with an "AND" clause	When multiple rules are used, this indicates when the criteria of a pair of rules must both be "true."
Group Start: Evaluating Or Node	When two rules are being evaluated with an "OR" clause	When multiple rules are used, this indicates when the criteria of a pair of rules must be "true" for one of them.

Message	Triggered	Meaning
Group Start: Evaluating Not Node	When two rules are being evaluated with a "NOT" clause	This indicates to check for the opposite of what the criteria evaluates to.
Setting invite delay to: {Invite Delay}	When a timer-based rule has not yet met the criteria	If the criteria for a timer-based rule is not met, a delay is set to attempt to evaluate the rules again in the future when the criteria will have been met.

## Customize Your Chat Window with the Deployment APIs

Customize the dimensions of your customer-facing chat windows. This doesn't apply for mobile-based browsers.

Use the following deployment methods to customize the height and width of the chat window. You can add either of these methods as additional scripts within the code that's automatically generated when you create a deployment.

 **Note:** This isn't applicable for mobile browsers, where chats open to the full page.

`setChatWindowHeight`

Use the `setChatWindowHeight` method to customize the height of your chat window.

`setChatWindowWidth`

Use the `setChatWindowWidth` method to customize the width of your chat window.

### `setChatWindowHeight`

Use the `setChatWindowHeight` method to customize the height of your chat window.

### Usage

Sets the height in pixels of the chat window that appears to customers. Available in API versions 28.0 and later.

### Syntax

```
void setChatWindowHeight (Number height)
```

### Parameters

Name	Type	Description	Available Versions
height	Number	The height in pixels of your custom chat window.	Available in API versions 28.0 and later.

### `setChatWindowWidth`

Use the `setChatWindowWidth` method to customize the width of your chat window.

## Usage

Sets the width in pixels of the chat window that appears to customers. Available in API versions 28.0 and later.

## Syntax

```
void setChatWindowWidth(Number width)
```

## Parameters

Name	Type	Description	Available Versions
width	Number	The width in pixels of your custom chat window.	Available in API versions 28.0 and later.

## Customize Chat Buttons with the Deployment APIs

Customize your chat buttons and set how chats start for your customers.

Each chat button includes code that you place on your website to let customers start a chat. Chat automatically handles the button's availability based on your agents' availability and your org's settings. It also handles starting the chat request from the button.

Use the following deployment methods to customize your chat buttons and starting chats. You can add any of these methods as additional scripts within the code that's automatically generated when you create a deployment.

### [showWhenOnline](#)

Use the `showWhenOnline` method to specify what customers see when a particular button is online.

### [showWhenOffline](#)

Use the `showWhenOffline` method to specify what customers see when a particular button is offline.

### [addButtonEventHandler](#)

Use the `addButtonEventHandler` method to define a chat button's behavior when certain events occur. Available in API versions 28.0 and later.

### [startChat](#)

Use the `startChat` method to request a chat from a button in a new window.

### [startChatWithWindow](#)

Use the `startChatWithWindow` method to request a chat from a button using the name of a window.

### [Corresponding Calls for Chat Buttons](#)

Make sure your chats start correctly by aligning your calls when using buttons, direct-to-agent, and agent with fallback-to-button.

SEE ALSO:

[Chat Routing Options](#)

## showWhenOnline

Use the `showWhenOnline` method to specify what customers see when a particular button is online.

## Usage

Displays a particular element when the specified button, agent, or agent-with-fallback-button is online. Available in API versions 28.0 and later.

## Syntax

For a button, `userId` is optional: **void** `showWhenOnline(String buttonId, Object element, (optional) String userId)`

For an agent, use `userId` instead of `buttonId`: **void** `showWhenOnline(String userId, Object element)`

For an agent with fallback-to-button, use both IDs (the element shows when either the agent or button is online): **void** `showWhenOnline(String buttonId, Object element, String userId)`



**Note:** Any time you use both a `buttonId` and a `userId`, `buttonId` must appear first.

## Parameters

Name	Type	Description	Available Versions
<code>buttonId</code>	String	The ID of the chat button for which to display the specified <code>element</code> object when agents that are associated with the button are available to chat.	Available in API versions 28.0 and later.
<code>element</code>	Object	The element to be displayed when the specified button is online.	Available in API versions 28.0 and later.
<code>userId</code>	String	The ID of the agent to associate with the button. The <code>element</code> object is displayed when that agent is available.	Available in API versions 29.0 and later.

If you specify a button ID but not a user ID in your parameters, the element is displayed only if the button is online.

If you specify a user ID but not a button ID, the element is displayed only if the agent is online. For example, the following syntax tracks an agent's online status and sets the button to online when that agent is available and offline if unavailable.

```
liveagent.showWhenOnline('005xx000001Sv1m',
document.getElementById('liveagent_button_toAgent_online'));
```

If you specify a button ID and an agent ID, the element is displayed if either the button or the agent is online. For example, the following syntax tracks the status of an agent and a button and displays the element if at least one skilled agent is available.

```
liveagent.showWhenOnline('573xx0000000006',
document.getElementById('liveagent_button_online_573xx0000000006_USER1'), '005xx000001Sv1m');
```

## showWhenOffline

Use the `showWhenOffline` method to specify what customers see when a particular button is offline.

## Usage

Displays a particular element when the specified button, agent, or agent-with-fallback-button is offline. Available in API versions 28.0 and later.

## Syntax

For a button, `userId` is optional: **void** `showWhenOffline(String buttonId, Object element, (optional) String userId)`

For an agent, use `userId` instead of `buttonId`: **void** `showWhenOffline(String userId, Object element)`

For an agent with fallback-to-button, use both IDs (the element shows when either the agent or button is offline): **void** `showWhenOffline(String buttonId, Object element, String userId)`



**Note:** Any time you use both a `buttonId` and a `userId`, `buttonId` must appear first.

## Parameters

Name	Type	Description	Available Versions
<code>buttonId</code>	String	The ID of the chat button for which to display the specified <code>element</code> object when no agents are available to chat.	Available in API versions 28.0 and later.
<code>element</code>	Object	The element to display when the specified button is offline.	Available in API versions 28.0 and later.
<code>userId</code>	String	The ID of the agent to associate with the button. The <code>element</code> object is displayed when that agent is unavailable.	Available in API versions 29.0 and later.

If you specify a button ID but not a user ID in your parameters, the element displays only if the button is offline.

If you specify a user ID but not a button ID, the element displays only if the agent is offline. For example, the following syntax tracks an agent's online status and sets the button to offline when that agent is unavailable.

```
liveagent.showWhenOffline('005xx000001Sv1m',
document.getElementById('liveagent_button_toAgent_offline'));
```

If you specify a button ID and an agent ID, the element displays if neither the button or the agent is available. For example, the following syntax tracks the status of an agent and a button and displays the element if neither one is available.

```
liveagent.showWhenOffline('573xx0000000006',
document.getElementById('liveagent_button_offline_573xx0000000006_USER1'),
'005xx000001Sv1m');
```

## addButtonEventHandler

Use the `addButtonEventHandler` method to define a chat button's behavior when certain events occur. Available in API versions 28.0 and later.

## Usage

Defines the behavior for a chat button when the following events occur:

- An agent is available to chat.
- No agents are available to chat.

The event “no agents are available to chat” occurs whenever a chat can’t reach an agent using the configured chat button. The event occurs when:

- No agents are online.
- No agents assigned to the skills associated with the button are online.
- Online agents have the status **Away**.
- Online agents are at capacity (set with Chat Configurations, or Presence Configurations with Omni-Channel).
- Online agents are using Omni-Channel and are only available for other service channels.

## Syntax

```
void addButtonEventHandler(String buttonId, Function callback)
```

## Parameters

Name	Type	Description	Available Versions
buttonId	String	The ID of the chat button for which to define the behavior when certain events occur.	Available in API versions 28.0 and later.
callback	function	The function to call when a particular event occurs. You must specify the button’s behavior for each of the <a href="#">required event types</a> on page 13.	Available in API versions 28.0 and later.

## Event Types

Incorporate the following event types into your `callback` function to customize the behavior of your button when certain events occur. You must specify the button’s behavior for each of the following event types.

Function	Event Type	Syntax	Description
callback	BUTTON_AVAILABLE	liveagent.BUTTON_EVENT.BUTTON_AVAILABLE	Specifies the behavior of the button when the criteria are met for customers to be able to chat with an agent, such as when an agent with the correct skills is available to chat.

Function	Event Type	Syntax	Description
	BUTTON_UNAVAILABLE	<code>liveagent.BUTTON_EVENT.BUTTON_UNAVAILABLE</code>	Specifies the behavior of the button when no agents are available to chat.

## startChat

Use the `startChat` method to request a chat from a button in a new window.

## Usage

Requests a chat from the provided button in a new window.

Optionally, you can route chats from a specific button directly to the agent with the `userId` you specify. If the agent is unavailable, you can route the chat to additional agents by specifying whether to fallback to the button's routing rules (`true`) or not (`false`).

## Syntax

```
void startChat(String buttonId, (optional) String userId, (optional) Boolean fallback)
```

## Parameters

Name	Type	Description	Available Versions
<code>buttonId</code>	String	The ID of the chat button for which to request a chat in a new window.	Available in API versions 28.0 and later.
(Optional) <code>userId</code>	String	The Salesforce.com user ID of the agent to whom to directly route chats from the button.	Available in API versions 29.0 and later.
(Optional) <code>fallback</code>	Boolean	Specifies whether to fall back to the button's routing rules ( <code>true</code> ) or not ( <code>false</code> ) if the agent with the specified <code>sfdcUserId</code> is unavailable.	Available in API versions 29.0 and later.

## startChatWithWindow

Use the `startChatWithWindow` method to request a chat from a button using the name of a window.

## Usage

Requests a chat from the provided button using the provided window name. Available in API versions 28.0 and later.

## Syntax

```
void startChatWithWindow(String buttonId, String windowName, (optional) String userId,
(optional) Boolean fallback)
```

## Parameters

Name	Type	Description	Available Versions
buttonId	String	The ID of the chat button for which to request a chat in a new window.	Available in API versions 28.0 and later.
windowName	String	The name of the window.	Available in API versions 28.0 and later.
(Optional) userId	String	The Salesforce user ID of the agent to whom to directly route chats from the button.	Available in API versions 29.0 and later.
(Optional) fallback	Boolean	Specifies whether to fall back to the button's routing rules ( <code>true</code> ) or not ( <code>false</code> ) if the agent with the specified <code>sfdcUserId</code> is unavailable.	Available in API versions 29.0 and later.

## Corresponding Calls for Chat Buttons

Make sure your chats start correctly by aligning your calls when using buttons, direct-to-agent, and agent with fallback-to-button.

Keep in mind that the syntax for `startChat` also applies to `startChatWithWindow`, and the syntax for `showWhenOnline` also applies to `showWhenOffline`.

Use the following corresponding calls when you're creating chats with a button, direct-to-agent, and agent with fallback-to-button:

Scenario	Call to <code>startChat</code> (or <code>startChatWithWindow</code> )	Call to <code>showWhenOnline</code> (or <code>showWhenOffline</code> )	Call to <code>addButtonEventHandler</code>
Button	<code>startChat (String buttonId)</code>	<code>showWhenOnline (String buttonId, Object element, (optional) String userId)</code>	<code>addButtonEventHandler (String buttonId, Function callback)</code>
Agent (no fallback)	<code>startChat (String buttonId, String userId, false)</code>	<code>showWhenOnline (String userId, Object element)</code>	<code>addButtonEventHandler (String userId, Function callback)</code>
Agent (fallback to button)	<code>startChat (String buttonId, String userId, true)</code>	<code>showWhenOnline (String buttonId, Object element, String userId)</code>	Use multiple handlers.

## Find and Create Records Automatically with the Deployment APIs

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Use the Deployment API to search for or create Salesforce records—like a case, contact, account, or lead—automatically when an agent begins a chat with a customer.

You can add any of these methods as additional scripts within the code that's automatically generated when you create a deployment.

### [addCustomDetail](#)

Use the `addCustomDetail` method to add custom details for each chat visitor.

### [findOrCreate](#)

Use the `findOrCreate` method to find existing records or create records based on certain criteria.

### [setName](#)

Use the `setName` method to set the visitor name displayed in the Chat console or the Salesforce console.

### [Search for Knowledge Articles with the Deployment APIs](#)

Use the Deployment API to search for Knowledge articles based on the information that a customer provides in a pre-chat form.

### [Find and Create Records Deployment API Code Sample](#)

Test and preview how automatically creating records can work with your Chat deployments using this code sample.

## addCustomDetail

Use the `addCustomDetail` method to add custom details for each chat visitor.

## Usage

Adds a new custom detail for the chat visitor. The Custom Detail is displayed to agents in the footer widget and in the Chat Details page in the Salesforce Console while the chat is active. Available in API versions 28.0 and later.

## Syntax

```
addCustomDetail(String label, String value, (optional) Boolean displayToAgent)
```

## Parameters


Name	Type	Description	Available Versions
<code>label</code>	String	The label for the custom detail—for example, "Name".	Available in API versions 28.0 and later.
<code>value</code>	String	The value of the custom detail—for example, "John Doe".	Available in API versions 28.0 and later.
(Optional) <code>displayToAgent</code>	Boolean	Specifies whether to display the custom details that customers provide in a pre-chat form to the agent ( <code>true</code> ) or not ( <code>false</code> ).	Available in API versions 29.0 and later.

## findOrCreate

Use the `findOrCreate` method to find existing records or create records based on certain criteria.

### Usage

Finds or creates a record of the specified type when a chat is routed by Omni-Channel or when an agent accepts a chat request that is routed by Live Agent routing. For chats routed by Omni-Channel, the `findOrCreate` code triggers even if the chat visitor cancels the chat before the agent accepts. For chats routed by Live Agent routing, the code triggers only when an agent accepts the chat request.

 **Note:** The `findOrCreate` method begins the API call that finds existing records or create records when an agent begins a chat with a customer. Use this method before calling any of the other `findOrCreate` submethods for finding or creating records with the Deployment API.

Available in API versions 29.0 and later.

### Syntax

```
liveagent.findOrCreate(String EntityName)
```

### Parameters

Name	Type	Description	Available Versions
EntityName	String	The type of record to search for or create when an agent accepts a chat with a customer—for example, a contact record.	Available in API versions 29.0 and later.

#### [findOrCreate.map](#)

Use the `findOrCreate.map` method to search for or create records that contain specific customer details.

#### [findOrCreate.saveToTranscript](#)

Use the `findOrCreate.saveToTranscript` method to save the record you find or create to the chat transcript associated with the chat.

#### [findOrCreate.showOnCreate](#)

Use the `findOrCreate.showOnCreate` method to automatically open the record you create in a subtab in the Salesforce console.

#### [findOrCreate.linkToEntity](#)

Use the `findOrCreate.linkToEntity` method to link the record you found or created to another record type.


## findOrCreate.map

Use the `findOrCreate.map` method to search for or create records that contain specific customer details.

### Usage

Searches for or creates records that contain customer data specified by the `addCustomDetail` Deployment API method. This method maps the value of the custom details to the fields on the specified record in the Salesforce console.

You can call the `findOrCreate.map` method as many times as necessary to find the appropriate records. Call the method once for every field and its corresponding custom detail value you want to search for.

 **Note:** To find the API name of a field for a standard object, see our API documentation. For non-standard objects, look at the field detail for the object under **Setup**.

Available in API versions 29.0 and later.

## Syntax

```
liveagent.findOrCreate(Object EntityName).map(String FieldName, String DetailName,  
Boolean doFind, Boolean isExactMatch, Boolean doCreate)
```

## Parameters

Name	Type	Description	Available Versions
FieldName	String	The API name of the field in the record EntityName to which to map the corresponding custom detail DetailName.	Available in API versions 29.0 and later.
DetailName	String	The value of the custom detail to map to the corresponding field FieldName.	Available in API versions 29.0 and later.
doFind	Boolean	Specifies whether to search for a record that contains the custom detail DetailName in the field FieldName (true) or not (false).	Available in API versions 29.0 and later.
isExactMatch	Boolean	Specifies whether to search for a record that contains the exact value of the custom detail DetailName you specified in the field FieldName (true) or not (false).	Available in API versions 29.0 and later.
doCreate	Boolean	Specifies whether to create a new record with the custom detail DetailName in the field FieldName if one isn't found (true) or not (false).	Available in API versions 29.0 and later.

## findOrCreate.saveToTranscript

Use the `findOrCreate.saveToTranscript` method to save the record you find or create to the chat transcript associated with the chat.

## Usage

Saves the record that you found or created using the `findOrCreate` and `findOrCreate.map` Deployment API methods to the chat transcript associated with the chat.

Available in API versions 29.0 and later.

## Syntax

```
liveagent.findOrCreate(String EntityName).saveToTranscript(String TranscriptFieldName)
```

## Parameters

Name	Type	Description	Available Versions
TranscriptFieldName	String	The name of the field on the chat transcript record to which to save the ID of the record you found or created.	Available in API versions 29.0 and later.

## findOrCreate.showOnCreate

Use the `findOrCreate.showOnCreate` method to automatically open the record you create in a subtab in the Salesforce console.

## Usage

Opens the record you created using the `findOrCreate` and `findOrCreate.map` Deployment API methods automatically in a subtab in the to the Salesforce console.

Available in API versions 29.0 and later.

## Syntax

```
liveagent.findOrCreate(String EntityName).showOnCreate()
```

## findOrCreate.linkToEntity

Use the `findOrCreate.linkToEntity` method to link the record you found or created to another record type.

## Usage

Links the record that you found or created using the `findOrCreate` and `findOrCreate.map` Deployment API methods to another record of a different record type that you created using a separate `findOrCreate` API call. For example, you can link a case record you found within your organization to a contact record you create.



**Note:** You can only link records if the parent record is created with a `findOrCreate` API call. You can't link a child record to a record you found using the `findOrCreate.linkToEntity` method.

Available in API versions 29.0 and later.

## Syntax

```
liveagent.findOrCreate(String EntityName).linkToEntity(String EntityName, String FieldName)
```

## Parameters

Name	Type	Description	Available Versions
EntityName	String	The type of record to which to link the child record you found or created.	Available in API versions 29.0 and later.
FieldName	String	The name of the API field in the record EntityName to which to save the ID of the child record you found or created.	Available in API versions 29.0 and later.



**Note:** To find the API name of a field for a standard object, see our API documentation. For non-standard objects, look at the field detail for the object under **Setup**.

## setName

Use the `setName` method to set the visitor name displayed in the Chat console or the Salesforce console.

## Usage

Sets the visitor name displayed in the Salesforce console. The name will show in the chat's primary tab, the agent's chat log with the chat transcript, and in the Live Agent Supervisor panel. Available in API versions 28.0 and later.

## Syntax

```
setName(String name)
```

## Parameters

Name	Type	Description	Available Versions
name	String	The visitor name that appears in the Chat console or the Salesforce console.	Available in API versions 28.0 and later.

## Search for Knowledge Articles with the Deployment APIs

Use the Deployment API to search for Knowledge articles based on the information that a customer provides in a pre-chat form.

[addCustomDetail.doKnowledgeSearch](#)

Use the `knowledgeSearch` method to automatically search for Knowledge articles based on criteria in a pre-chat form.

### `addCustomDetail.doKnowledgeSearch`

Use the `knowledgeSearch` method to automatically search for Knowledge articles based on criteria in a pre-chat form.

## Usage

Retrieves a custom detail value from a pre-chat form when a customer requests a chat with an agent. After an agent accepts the chat request, this value is used as a search keyword to find articles in the Knowledge One widget. The `doKnowledgeSearch()` method conducts a search by using the `value` parameter in the `addCustomDetail` method. Available in API version 31.0 and later.

## Syntax

```
liveagent.addCustomDetail(String label, String value, (optional) Boolean
displayToAgent).doKnowledgeSearch()
```

## Find and Create Records Deployment API Code Sample

Test and preview how automatically creating records can work with your Chat deployments using this code sample.

The following code searches for and creates records when an agent begins a chat with a customer using the following methods:

- `addCustomDetail`
- `findOrCreate`
- `findOrCreate.map`
- `findOrCreate.saveToTranscript`
- `findOrCreate.linkToEntity`
- `findOrCreate.showOnCreate`

```
<script type='text/javascript'>
/* Creates a custom detail called First Name and sets the value to "Jane" */
liveagent.addCustomDetail("First Name", "Jane");

/* Creates a custom detail called Last Name and sets the value to "Doe" */
liveagent.addCustomDetail("Last Name", "Doe");

/* Creates a custom detail called Phone Number and sets the value to "555-1212" */
liveagent.addCustomDetail("Phone Number", "415-555-1212");

/* Creates a custom detail called Case Subject and sets the value to "Best snowboard for
a beginner" and will perform a knowledge search when the chat is accepted for the agent
*/

liveagent.addCustomDetail("Case Subject", "Best snowboard for a
beginner").doKnowledgeSearch();

/* Creates a custom detail called Case Status and sets the value to "New" */
liveagent.addCustomDetail("Case Status", "New");

/* This does a non-exact search on cases by the value of the "Case Subject" custom detail.

If no results are found, it will create a case and set the case's subject and status
The case that's found or created will be associated to the chat and the case will open
in
the Console for the agent when the chat is accepted */
liveagent.findOrCreate("Case").map("Subject", "Case
Subject", true, false, true).map("Status", "Case
Status", false, false, true).saveToTranscript("CaseId").showOnCreate();
```

```

/* This searches for a contact whose first and last name exactly match the values in the
custom details for First and Last Name
If no results are found, it will create a new contact and set it's first name, last name,
and phone number to the values in the custom details */
liveagent.findOrCreate("Contact").map("FirstName", "First
Name", true, true, true).map("LastName", "Last Name", true, true, true).map("Phone", "Phone
Number", false, false, true);

/* The contact that's found or created will be saved or associated to the chat transcript.
The contact will be opened for the agent in the Console and the case is linked to the
contact record */
liveagent.findOrCreate("Contact").saveToTranscript("ContactId").showOnCreate().linkToEntity("Case", "ContactId");
</script>

```

## Customize Automated Chat Invitations with the Deployment APIs

Customize automated chat invitations that appear to customers on your website.

Use the following deployment methods to customize your automated chat invitations.

### [setCustomVariable](#)

Use the `setCustomVariable` method to create customized criteria in your sending rules that must be met in order for your automated invitation to be sent to customers.

### [rejectChat](#)

Use the `rejectChat` method to reject and retract an invitation that's been sent to a customer.

### [addButtonEventHandler](#)

Use the `addButtonEventHandler` method to define an automated invitation's behavior when certain events occur.

### [Automated Chat Invitation Code Sample](#)

Test and preview how automated chat invitations can work on your website using this code sample.

## setCustomVariable

Use the `setCustomVariable` method to create customized criteria in your sending rules that must be met in order for your automated invitation to be sent to customers.

## Usage

Creates customized criteria in your sending rules that must be met in order for your automated invitation to be sent to customers. Specifies the comparison values for custom variables used in criteria for your sending rules. Available in API versions 28.0 and later.

## Syntax

```
void setCustomVariable(String variableName, Object value)
```

## Parameters

Name	Type	Description	Available Versions
variableName	String	The name of the customized criteria for your custom sending rule.	Available in API versions 28.0 and later.
value	Object	The comparison value for your custom sending rule.	Available in API versions 28.0 and later.

## rejectChat

Use the `rejectChat` method to reject and retract an invitation that's been sent to a customer.

## Usage

Rejects an invitation and causes it to be retracted.

Available in API versions 28.0 and later.

## Syntax

```
void rejectChat(String buttonId)
```

## Parameters

Name	Type	Description	Available Versions
buttonId	String	The ID of the chat button for which to reject chats.	Available in API versions 28.0 and later.

## addButtonEventHandler

Use the `addButtonEventHandler` method to define an automated invitation's behavior when certain events occur.

## Usage

Defines the behavior for an invitation when the following events occur:

- The criteria are met for the invitation to appear on-screen.
- The criteria are not met for the invitation to appear on-screen.
- A customer accepts an invitation to chat.
- A customer rejects an invitation to chat.

The event “the criteria are not met for the invitation to appear on the screen” occurs when a chat can't reach an agent using the configured chat button or automated invitation. The event occurs when:

- No agents are online.
- No agents assigned to the skills associated with the button are online.

- Online agents have the status **Away**.
- Online agents are at capacity (set with Chat Configurations, or Presence Configurations with Omni-Channel).
- Online agents are using Omni-Channel and are only available for other service channels.

Available in API versions 28.0 and later.

## Syntax

```
void addButtonEventHandler(String buttonId, Function callback)
```

## Parameters


Name	Type	Description	Available Versions
buttonId	String	The ID of the chat button associated with the automated invitation for which to define the behavior when certain events occur.	Available in API versions 28.0 and later.
callback	function	The function to call when a particular event occurs. You must specify the invitation's behavior for each of the <a href="#">required event types</a> on page 24.	Available in API versions 28.0 and later.

## Event Types

Incorporate the following event types into your `callback` function to customize the behavior of your invitation when certain events occur. You must specify the invitation's behavior for each of the following event types.

Function	Event Type	Syntax	Description
callback	BUTTON_AVAILABLE	<code>liveagent.BUTTON_EVENT.BUTTON_AVAILABLE</code>	Specifies the behavior of the automated invitation when the criteria are met for the invitation to appear on-screen.
	BUTTON_UNAVAILABLE	<code>liveagent.BUTTON_EVENT.BUTTON_UNAVAILABLE</code>	Specifies the behavior of the automated invitation when the criteria are not met for the invitation to appear on-screen.
	BUTTON_ACCEPTED	<code>liveagent.BUTTON_EVENT.BUTTON_ACCEPTED</code>	Specifies the behavior of the automated invitation when a

Function	Event Type	Syntax	Description
			customer accepts the invitation. This event type is only available for automated chat invitations.
	BUTTON_REJECTED	<code>liveagent.BUTTON_EVENT.BUTTON_REJECTED</code>	Specifies the behavior of the automated invitation when a customer rejects the invitation. This event type is only available for automated chat invitations.

 **Note:** You might receive multiple events of the same type.

## Automated Chat Invitation Code Sample

Test and preview how automated chat invitations can work on your website using this code sample.

The following code is for an automated chat invitation that uses the `addButtonEventHandler()` method to display a customized invitation on a website. This invitation allows customers to start a chat with an agent when an agent with the correct skills is available to chat.

```
<apex:page>

<!-- This section creates the div with the UI for chat invitation whose id is 573D01234567890 -->
<!-- For this usage, the "Animation" type of this invitation should be set to "Custom", otherwise two invitations will appear (the Salesforce-provided one and this custom one). -->
<div id="liveagent_invite_button_573D01234567890" style="display: none; position: fixed; border: 2px solid darkblue; border-radius: 5px; background-color: lightblue; height: 100px; width: 200px;">
  <!-- Creates an "X" option to reject or close the invitation if it's offered -->
  <div style="cursor: pointer; padding: 5px; right: 0px; position: absolute; color: darkred; font-weight: bold;" onclick="liveagent.rejectChat('573D01234567890')">X</div>
  <!-- Provides the Start Chat option for the customer to accept or start the chat for the invitation -->
  <div style="cursor: pointer; top: 42px; left: 65px; position: absolute; font-weight: bold; font-size: 16px;" onclick="liveagent.startChat('573D01234567890')">Start Chat</div>
</div>

<!-- Chat Deployment Code that makes chat available -->
<script type='text/javascript'
```

```

src='https://c.lals1.salesforceliveagent.com/content/g/js/36.0/deployment.js'></script>

<script type='text/javascript'>
  // Creates the callback function used for the Chat invitation to present it or not based
  // on availability and the customer's interaction with it
  function buttonCallback(e) {

    // When the chat invitation is online (i.e. at least one available, skilled agent),
    // display it at position top 200px and left 300px    if (e ==
    liveagent.BUTTON_EVENT.BUTTON_AVAILABLE) {
      document.getElementById('liveagent_invite_button_573D01234567890').style.display = '';
      document.getElementById('liveagent_invite_button_573D01234567890').style.left = '300px';

      document.getElementById('liveagent_invite_button_573D01234567890').style.top = '200px';

    }

    // When the chat invitation is offline, don't display it
    if (e == liveagent.BUTTON_EVENT.BUTTON_UNAVAILABLE) {
      document.getElementById('liveagent_invite_button_573D01234567890').style.display = 'none';
    }

    // When the chat invitation is accepted, stop displaying it    if (e ==
    liveagent.BUTTON_EVENT.BUTTON_ACCEPTED) {
      document.getElementById('liveagent_invite_button_573D01234567890').style.display = 'none';
    }

    // When the chat invitation is rejected, stop displaying it    if (e ==
    liveagent.BUTTON_EVENT.BUTTON_REJECTED) {
      document.getElementById('liveagent_invite_button_573D01234567890').style.display = 'none';
    }
  }

  // Registers the function buttonCallback() above as the callback for the chat invitation
  // whose id is 573D01234567890    liveagent.addButtonEventHandler('573D01234567890',
  buttonCallback);

  // Let's say there is data available in JavaScript that you want to use in a custom sending
  // rule.
  var shoppingCartValue = 123.45;
  // To pass this data so it can be used in Sending Rules in Salesforce setup, call
  // setCustomVariable.
  liveagent.setCustomVariable('shoppingCartValue', shoppingCartValue);

  // Chat deployment code that initializes chat for the deployment whose id is 572D01234567890
  // and org is 00DD01234567890
  liveagent.init('https://d.lals1.salesforceliveagent.com/chat', '572D01234567890',
  '00DD01234567890');

  // Enable Chat advanced logging to be available through the Browser's Developer Console

```

```
liveagent.enableLogging();
</script>

</apex:page>
```

This code lets you pass data that's available in JavaScript so it can be used in your invitation's sending rules in Setup. This is an example of how your settings might look:

**Sending Rule**

Customize the criteria for your sending rule to define how and when automated invitations are sent to customers. Use filter logic to fine-tune how these criteria are applied using logical operators.

Criteria	Operator	Value	
Custom Variable	greater or equal	100	AND
--None--	--None--		AND

## Deployment API Code Sample

Test and preview how the Deployment API can help you customize your deployments.

This code sample creates a chat window that uses the following Deployment API methods:

- startChat
- showWhenOnline
- showWhenOffline
- addCustomDetail
- setName
- map
- setChatWindowWidth
- setChatWindowHeight
- doKnowledgeSearch



**Warning:** Details added via the Deployment API are associated with the Visitor. When a chat is launched, the Chasitor is associated with the initial visitor. A subsequent request is a new Chasitor associated with the same visitor. To create details associated with only one Chasitor, the Prechat API must be used instead.

```
<apex:page showHeader="false">
<style> body { margin: 25px 0 0 25px; } </style>

<h1>Welcome to Support</h1>
<br />
Thank you for your interest.
<br /><br />

<!-- START Button code, Replace this section with your Chat button code snippet -->
<a id="liveagent_button_online_573B0000000033Y" href="javascript://Chat" style="display:
none;" onclick="liveagent.startChat('573B0000000033Y')">Chat Now</a>
<div id="liveagent_button_offline_573B0000000033Y" style="display: none;">Chat is currently
unavailable</div>
<script type="text/javascript">
```

```

    if (!window._laq) { window._laq = []; }
    window._laq.push(function(){
        liveagent.showWhenOnline('573B0000000033Y',
document.getElementById('liveagent_button_online_573B0000000033Y'));
        liveagent.showWhenOffline('573B0000000033Y',
document.getElementById('liveagent_button_offline_573B0000000033Y'));
    });</script>

<!-- END Button code -->

<!-- Chat Deployment Code, replace with your org's values -->
<script type='text/javascript'
src='https://c.la.gus.salesforce.com/content/g/js/36.0/deployment.js'></script>

<!-- Deployment Code API examples -->
<script type='text/javascript'>
/* Adds a custom detail called Contact Email and sets it value to jane@doe.com */
liveagent.addCustomDetail('Contact E-mail', 'jane@doe.com');

/* Creates a custom detail called First Name and sets the value to Jane */
liveagent.addCustomDetail('First Name', 'Jane');

/* Creates a custom detail called Last Name and sets the value to Doe */
liveagent.addCustomDetail('Last Name', 'Doe');

/* Creates a custom detail called Phone Number and sets the value to 415-555-1212 */
liveagent.addCustomDetail('Phone Number', '415-555-1212');

/* An auto-query that searches Contacts whose Email field exactly matches 'jane@doe.com'.
If no result is found, it will create a Contact record with the email, first name, last
name, and phone number fields set to the custom detail values. */
liveagent.findOrCreate('Contact').map('Email', 'Contact
E-mail', true, true, true).map('FirstName', 'First Name', false, false, true).map('LastName', 'Last
Name', false, false, true).map('Phone', 'Phone Number', false, false, true);

/* The contact that's found or created will be saved or associated to the chat transcript.
The contact will be opened for the agent in the Console and the case is linked to the
contact record */
liveagent.findOrCreate('Contact').saveToTranscript('ContactId').showOnCreate().linkToEntity('Case', 'ContactId');

/* Creates a custom detail called Case Subject and sets the value to 'Refund policy for
products' and will perform a knowledge search when the chat is accepted for the agent */
liveagent.addCustomDetail('Case Subject', 'Refund policy for products').doKnowledgeSearch();

/* Creates a custom detail called Case Status and sets the value to 'New' */
liveagent.addCustomDetail('Case Status', 'New');

/* This does a non-exact search on cases by the value of the 'Case Subject' custom detail
If no results are found, it will create a case and set the case's subject and status.
The case that's found or created will be associated to the chat and the case will open in
the Console for the agent when the chat is accepted */
liveagent.findOrCreate('Case').map('Subject', 'Case
Subject', true, false, true).map('Status', 'Case
Status', false, false, true).saveToTranscript('CaseId').showOnCreate();

```

```

/* Saves the custom detail to a custom field on LiveChatTranscript at the end of a chat.
   Assumes a custom field called Company__c was added to the Live Chat Transcript object */
liveagent.addCustomDetail('Company', 'Acme').saveToTranscript('Company__c');

/* For internal or technical details that don't concern the agent, set showToAgent to false
   to hide them from the display. */
liveagent.addCustomDetail('VisitorHash', 'c6f440178d478e4326a1', false);

/* Sets the display name of the visitor in the agent console when engaged in a chat */
liveagent.setName('Jane Doe');

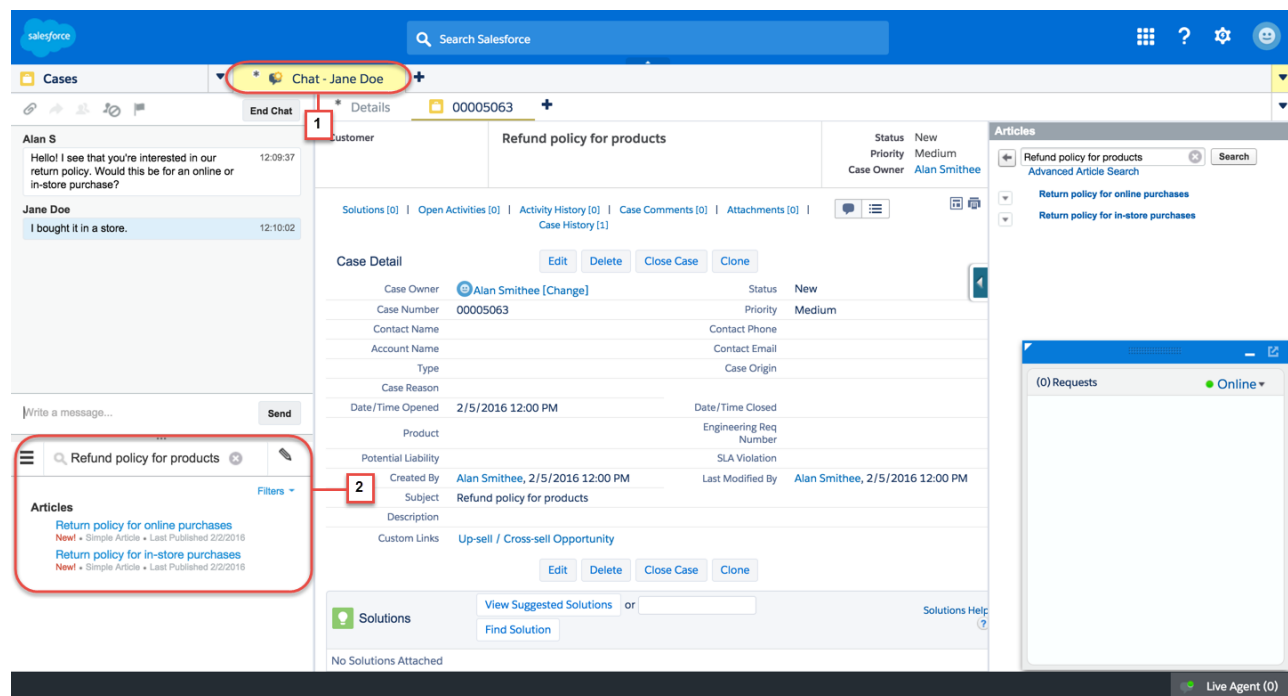
/* Sets the width of the chat window to 500px */
liveagent.setChatWindowWidth(500);

/* Sets the height of the chat window to 500px */
liveagent.setChatWindowHeight(500);

<!-- Chat Deployment Code to initialize, replace with your org's values -->
liveagent.init('https://d.la.gus.salesforce.com/chat', '572B000000003KL', '00DB00000000Rr8');
</script>
</apex:page>

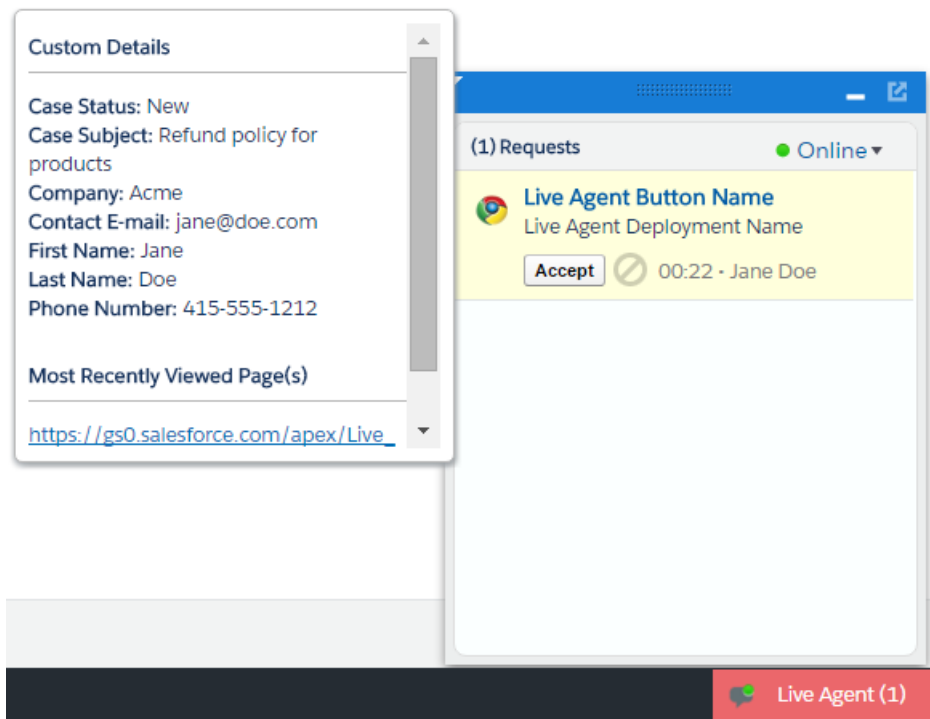
```

This code results in the following view for agents using the Console.



The name of the customer (Jane Doe for this example) appears in the Console from `setName` (1). When you call `addCustomDetail.doKnowledgeSearch`, the search automatically appears in the Knowledge widget (2).

When the agent receives a chat, the set Custom Details appear in a hover window.



# CHAPTER 5 Use Pre-Chat to Gather Visitor Information and Set Context for the Agent

Use pre-chat forms in to collect information from visitors and customize their pre-chat experience.

A pre-chat form can gather information, such as a customer's name, email address, and reason for contacting customer support. This information can help direct chat requests more efficiently and reduce the time agents spend collecting the information themselves. You can also use this information to customize the customer's experience while they chat with the agent, such as including their first name in the chat window.

You can create a Visualforce page to host your pre-chat form, or you can develop the form on your own. The information in this guide focuses on using Visualforce.

## [Find and Create Records Automatically with the Pre-Chat APIs](#)

Use the Pre-Chat API to search for or create customer records automatically when a customer completes a pre-chat form.

## [Access Chat Details with the Pre-Chat APIs](#)

Use the Pre-Chat API to access custom details from the Deployment API and incorporate them into pre-chat.

## [Pre-Chat Form Code Sample](#)

Test and preview how pre-chat forms can work for your agents and customers.

## Find and Create Records Automatically with the Pre-Chat APIs

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Use the Pre-Chat API to search for or create customer records automatically when a customer completes a pre-chat form.

### [findOrCreate.map](#)

Use the `findOrCreate.map` method to search for or create records that contain specific customer details.

### [findOrCreate.saveToTranscript](#)

Use the `findOrCreate.saveToTranscript` method to find or create a record and save it to the chat transcript associated with the chat.

### [findOrCreate.showOnCreate](#)

Use the `findOrCreate.showOnCreate` method to find or create a record and automatically open it in a subtab in the Salesforce console.

### [findOrCreate.linkToEntity](#)

Use the `findOrCreate.linkToEntity` method to link the record you found or created to another record type.

### [findOrCreate.displayToAgent](#)

Use the `findOrCreate.displayToAgent` method to specify which pre-chat details will be displayed to agents for incoming chats in the widget and in the Details tab when they receive a chat request.

## [Find and Create Records Pre-Chat API Code Sample](#)

Test and preview how to automatically create records when a customer completes a pre-chat form using this code sample.

## **findOrCreate.map**

Use the `findOrCreate.map` method to search for or create records that contain specific customer details.

## Usage

Searches for or creates records that contain the customer data that's specified in the pre-chat form that the customer completes. This method maps the value of the custom details to the fields on the specified record in the Salesforce console.

You can call the `findOrCreate.map` method as many times as necessary to find the appropriate records. You can list multiple fields and their corresponding details to map the detail values to the appropriate fields within the record.

Available in API versions 29.0 and later.

## Syntax

```
<input type= "hidden" name= "liveagent.prechat.findorcreate.map: String entityName" value= "String fieldName, String detailName;" />
```

## Parameters

Name	Type	Description	Available Versions
entityName	String	The type of record to search for or create when an agent accepts a chat with a customer, for example, a contact record	Available in API versions 29.0 and later.
fieldName	String	The name of the field in the record <code>EntityName</code> to which to map the corresponding custom detail value	Available in API versions 29.0 and later.
detailName	String	The value of the custom detail to map to the corresponding field <code>fieldName</code>	Available in API versions 29.0 and later.

### [findOrCreate.map.doFind](#)

Use the `findOrCreate.map.doFind` method to specify which fields to search against existing customer records when a customer completes a pre-chat form.

### [findOrCreate.map.isExactMatch](#)

Use the `findOrCreate.map.isExactMatch` method to specify whether a field value must exactly match the field value in an existing record when you conduct a search with the `findOrCreate.map` method.

### [findOrCreate.map.doCreate](#)

Use the `findOrCreate.map.doCreate` method to specify which fields in `findOrCreate.map` method to use to create a new record if an existing record isn't found.

## **findOrCreate.map.doFind**

Use the `findOrCreate.map.doFind` method to specify which fields to search against existing customer records when a customer completes a pre-chat form.

## Usage

Specifies which fields in your `findOrCreate.map` method to use to search for an existing record. You can search for one or more fields within records, but note that when multiple fields are specified, the logic relationship is AND. This means that all specified fields must match an existing record for it to be found.

When using custom fields, follow these guidelines:



- Checkboxes have valid values `true` and `false` when trying to search or create related to custom fields.
- Dates use the format YYYY-MM-DD.
- Numbers in the Currency field don't have a currency sign.
- Numbers in the Percentage field don't have a percentage sign.

Available in API versions 29.0 and later.

## Syntax

```
<input type= "hidden" name= "liveagent.prechat.findorcreate.map.doFind: String
entityName" value= "String fieldName, Boolean find;" />
```

## Parameters

Name	Type	Description	Available Versions
entityName	String	The type of record to search for or create when an agent accepts a chat with a customer—for example, a contact record.	Available in API versions 29.0 and later.
fieldName	String	<p>The name of the API field to search for in existing records.</p> <p> <b>Note:</b> To find the API name of a field for a standard object, see our API documentation. For non-standard objects, look at the field detail for the object under <b>Setup</b>.</p>	Available in API versions 29.0 and later.
find	Boolean	<p>Specifies whether to search for existing records that contain the field <code>fieldName</code> (<code>true</code>) or not (<code>false</code>).</p> <p> <b>Note:</b> You can specify only the fields for which <code>find</code> equals <code>true</code>. The method doesn't search for records containing fields for which <code>find</code> equals <code>false</code>.</p>	Available in API versions 29.0 and later.

## findOrCreate.map.isExactMatch

Use the `findOrCreate.map.isExactMatch` method to specify whether a field value must exactly match the field value in an existing record when you conduct a search with the `findOrCreate.map` method.

## Usage



Specifies which fields in your `findOrCreate.map` method require an exact field value match when you search for existing records. You can specify this for one or more fields within records.

Available in API versions 29.0 and later.

## Syntax

```
<input type= "hidden" name= "liveagent.prechat.findOrCreate.map.isExactMatch: String
entityName" value= "String fieldName, Boolean exactMatch;" />
```

## Parameters

Name	Type	Description	Available Versions
entityName	String	The type of record to search for or create when an agent accepts a chat with a customer—for example, a contact record.	Available in API versions 29.0 and later.
fieldName	String	<p>The API name of the field to search for in existing records.</p> <p> <b>Note:</b> To find the API name of a field for a standard object, see our API documentation. For non-standard objects, look at the field detail for the object under <b>Setup</b>.</p>	Available in API versions 29.0 and later.
find	Boolean	<p>Specifies whether to search for existing records that contain an exact match to the field <code>fieldName</code> (<code>true</code>) or not (<code>false</code>).</p> <p> <b>Note:</b> You only need to specify fields for which <code>exactMatch</code> equals <code>true</code>. The method will not search for records containing fields for which <code>exactMatch</code> equals <code>false</code>.</p>	Available in API versions 29.0 and later.

## findOrCreate.map.doCreate

Use the `findOrCreate.map.doCreate` method to specify which fields in `findOrCreate.map` method to use to create a new record if an existing record isn't found.

## Usage



Specifies which fields in your `findOrCreate.map` method to use to create a new record if an existing record isn't found. You can specify one or more fields for creating new records.

Available in API versions 29.0 and later.

## Syntax

```
<input type= "hidden" name= "liveagent.prechat.findOrCreate.map.doCreate: String
entityName" value= "String fieldName, Boolean create;" />
```

## Parameters

Name	Type	Description	Available Versions
entityName	String	The type of record to create when an agent accepts a chat with a customer and an existing record isn't found—for example, a contact record.	Available in API versions 29.0 and later.
fieldName	String	<p>The API name of the field to include in new records.</p> <p> <b>Note:</b> The <code>findOrCreate</code> method begins the API call that finds existing records or create new records when an agent begins a chat with a customer. You must use this method before calling any of the other <code>findOrCreate</code> sub-methods for finding or creating records with the Deployment API.</p>	Available in API versions 29.0 and later.
create	Boolean	<p>Specifies whether to create a new record that contains the field <code>fieldName</code> (<code>true</code>) or not (<code>false</code>).</p> <p> <b>Note:</b> You only need to specify fields for which <code>create</code> equals <code>true</code>. The method will not create records containing fields for which <code>create</code> equals <code>false</code>.</p>	Available in API versions 29.0 and later.

## findOrCreate.saveToTranscript

Use the `findOrCreate.saveToTranscript` method to find or create a record and save it to the chat transcript associated with the chat.

## Usage

Saves the record that you found or created using the `findOrCreate.map.doCreate` or `findOrCreate.map.doFind` Pre-Chat API methods to the chat transcript associated with the chat when the chat ends.

Available in API versions 29.0 and later.

## Syntax

```
<input type="hidden" name= "liveagent.prechat.findorcreate.saveToTranscript: String
entityName" value= "String transcriptFieldName" />
```

## Parameters

Name	Type	Description	Available Versions
entityName	String	The type of record to search for or create when an agent accepts a chat with a customer—for example, a contact record.	Available in API versions 29.0 and later.
transcriptFieldName	String	The API name of the field on the chat transcript record to which to save the ID of the record you found or created.	Available in API versions 29.0 and later.



**Note:** To find the API name of a field for a standard object, see our API documentation. For non-standard objects, look at the field detail for the object under **Setup**.

## findOrCreate.showOnCreate

Use the `findOrCreate.showOnCreate` method to find or create a record and automatically open it in a subtab in the Salesforce console.

## Usage

Opens the record you created using the `findOrCreate.map.doCreate` and `findOrCreate.map.doFind` Pre-Chat API methods automatically in a subtab in the to the Salesforce console.

Available in API versions 29.0 and later.

## Syntax

```
<input type= "hidden" name= "liveagent.prechat.findorcreate.showOnCreate: String
entityName" value= "Boolean show" />
```

## Parameters

Name	Type	Description	Available Versions
entityName	String	The type of record to search for or create when an agent accepts a chat with a customer—for example, a contact record.	Available in API versions 29.0 and later.
show	Boolean	Specifies whether to display the record you created in a subtab in the Salesforce console ( <code>true</code> ) or not ( <code>false</code> ).	Available in API versions 29.0 and later.

## findOrCreate.linkToEntity


Use the `findOrCreate.linkToEntity` method to link the record you found or created to another record type.

### Usage

Links the record you've found or created using the `findOrCreate.map.doFind` and `findOrCreate.map.doCreate` methods to another record of a different record type that you created using a separate `findOrCreate.map` API call. For example, you can link a case record you found within your organization to a contact record you create.

The `findOrCreate.linkToEntity` method links the found or created record to one record. If you try to link a found or created record to multiple records, the found or created record is linked only to the first record.

The `findOrCreate.linkToEntity` method can't be used to populate fields on records that you create by using the `findOrCreate` API call. Instead, use the [findOrCreate.map method](#) to update field values on records.

 **Note:** You can only link records if the parent record is created with a `findOrCreate` API call. You can't link a child record to a record you found using the `findOrCreate.linkToEntity` method.

Available in API versions 29.0 and later.

### Syntax

```
<input type= "hidden" name= "liveagent.prechat.findorcreate.linkToEntity: String  
entityName" value= "String parentEntityName, String fieldName" />
```

### Parameters

Name	Type	Description	Available Versions
entityName	String	The type of record which is linked to the parent record you found or created.	Available in API versions 29.0 and later.
parentEntityName	String	The type of parent record to link to the child record you found or created.	Available in API versions 29.0 and later.
fieldName	String	The name of the field in the record <code>parentEntityName</code> where the ID of the child record you found or created is saved.	Available in API versions 29.0 and later.

## findOrCreate.displayToAgent

Use the `findOrCreate.displayToAgent` method to specify which pre-chat details will be displayed to agents for incoming chats in the widget and in the Details tab when they receive a chat request.

### Usage

Specifies which pre-chat details to display to an agent in the Details tab in Salesforce console when the agent receives a chat request. Typically, this method is only used to hide particular custom details from the agent but setting its value to `false`.


Available in API versions 29.0 and later.

## Syntax

```
<input type= "hidden" name= "liveagent.prechat.findorcreate.displayToAgent: String
detailName" value= "Boolean display" />
```

## Parameters

Name	Type	Description	Available Versions
detailName	String	The name of the detail to display to an agent when they receive a chat request.	Available in API versions 29.0 and later.
display	Boolean	Specifies whether to display the custom detail to an agent in the chat notifications and Details tab ( <code>true</code> ) or not ( <code>false</code> ).	Available in API versions 29.0 and later.

 **Note:** You only need to specify details for which `display` equals `false`. The method will not display details for which `display` equals `false`. If you don't specify the value of the `display` parameter, the default value is set to `true`.

## Find and Create Records Pre-Chat API Code Sample

Test and preview how to automatically create records when a customer completes a pre-chat form using this code sample.

The following code searches for and creates records when a customer completes a pre-chat form using the following methods:

- `findOrCreate.map`
- `findOrCreate.map.doFind`
- `findOrCreate.map.isExactMatch`
- `findOrCreate.map.doCreate`
- `findOrCreate.saveToTranscript`
- `findOrCreate.showOnCreate`
- `findOrCreate.linkToEntity`

```
<form method="post" action="#">
<label>First Name: </label> <input type='text' name='liveagent.prechat:ContactFirstName'
/><br />
<label>Last Name: </label> <input type='text' name='liveagent.prechat:ContactLastName'
/><br />
<label>Subject: </label> <input type='text' name='liveagent.prechat:CaseSubject' /><br />
<input type="hidden" name="liveagent.prechat:CaseStatus" value="New" /><br />
<input type="hidden" name="liveagent.prechat.findorcreate.map:Contact"
value="FirstName,ContactFirstName;LastName,ContactLastName" />
<input type="hidden" name="liveagent.prechat.findorcreate.map.doFind:Contact"
value="FirstName,true;LastName,true" />
<input type="hidden" name="liveagent.prechat.findorcreate.map.isExactMatch:Contact"
```

```
value="FirstName,true;LastName,true" />
<input type="hidden" name="liveagent.prechat.findorcreate.map.doCreate:Contact"
value="FirstName,true;LastName,true" />
<input type="hidden" name="liveagent.prechat.findorcreate.saveToTranscript:Contact"
value="ContactId" />
<input type="hidden" name="liveagent.prechat.findorcreate.showOnCreate:Contact" value="true"
/>
<input type="hidden" name="liveagent.prechat.findorcreate.linkToEntity:Contact"
value="Case,ContactId" />
<input type="hidden" name="liveagent.prechat.findorcreate.map:Case"
value="Subject,CaseSubject;Status,CaseStatus" />
<input type="hidden" name="liveagent.prechat.findorcreate.map.doCreate:Case"
value="Subject,true;Status,true" />
<input type="submit" value="Submit" />
</form>
```

## Access Chat Details with the Pre-Chat APIs

Use the Pre-Chat API to access custom details from the Deployment API and incorporate them into pre-chat.

### `preChatInit`

Use the `preChatInit` method to access the deployment information that has been passed into the chat through the `addCustomDetail` Deployment API method.

## `preChatInit`

Use the `preChatInit` method to access the deployment information that has been passed into the chat through the `addCustomDetail` Deployment API method.

## Usage

Extracts chat deployment information, including Custom Details, for use with pre-chat. When you use `preChatInit`, include the `prechat.js` file in the same Apex page and with the same path as the `deployment.js` file.

Available in API versions 29.0 and later.

## Syntax

```
liveagent.details.preChatInit(String chatUrl, function detailCallback, (optional) String
chatFormName)
```

## Parameters

Name	Type	Description	Available Versions
<code>chatUrl</code>	String	The URL of the chat to retrieve custom details from.	Available in API versions 29.0 and later.

Name	Type	Description	Available Versions
<code>detailCallback</code>	String	Name of the JavaScript function to call upon completion of the method.	Available in API versions 29.0 and later.
(Optional) <code>chatFormName</code>	String	The name of the HTML form tag for the pre-chat form to which to incorporate the custom details.	Available in API versions 29.0 and later.

## Responses

Name	Type	Description	Available Versions
<code>details</code>	Object	An object containing the deployment information included in the pre-chat form using the <code>preChatInit</code> method.	Available in API versions 29.0 and later.

### `detailCallback`

The `detailCallback` method specifies the behavior that occurs after the `preChatInit` method returns the `details` object.

Syntax	Parameters	Description	Available Versions
<pre>function myCallBack(details) { // Customer   specific code }</pre>	<code>details</code>	Specifies the actions to occur after the custom details are retrieved using the <code>preChatInit</code> method.	Available in API versions 29.0 and later.

## Pre-Chat Form Code Sample

Test and preview how pre-chat forms can work for your agents and customers.

The following code is for a pre-chat form that:

- Gathers the visitor's first and last name, email address, phone number, and issue, and sets the values to Custom Details.
- Searches for a contact whose email exactly matches the value provided by the customer in the form. If there's no match, it creates a Contact record and maps the values provided by the customer to the record's fields.
- Creates a Case record to attach to the chat, and maps the details found to the record's fields.
- Sets the found or created Contact record as the contact for the Case.
- Associates the records Contact and Case to the Live Chat Transcript record and opens them for the agent in the Console.
- Searches knowledge article based on the text, assuming that Knowledge is set up.
- Displays the visitor's first and last name for the agent in the Console.

```
<apex:page showHeader="false">
```

```
<!-- This script takes the endpoint URL parameter passed from the deployment page and makes  
it the action for the form -->
```

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```

    <!-- Used to set the visitor's name for the agent in the Console -->
    <input type="hidden" name="liveagent.prechat.name" id="prechat_field_name" />

<!-- map: Use the data from prechat form to map it to the Salesforce record's fields -->
<input type="hidden" name="liveagent.prechat.findorcreate.map:Contact"
value="FirstName,ContactFirstName;LastName,ContactLastName;Email,ContactEmail;Phone,ContactPhone"
/>

<input type="hidden" name="liveagent.prechat.findorcreate.map:Case"
value="Subject,CaseSubject;Status,CaseStatus;Origin,CaseOrigin;RecordTypeId,CaseRecordType"
/>

<!-- doFind, doCreate and isExactMatch example for a Contact:
    Find a contact whose Email exactly matches the value provided by the customer in the
    form
    If there's no match, then create a Contact record and set it's First Name, Last Name,
    Email, and Phone to the values provided by the customer -->
<input type="hidden" name="liveagent.prechat.findorcreate.map.doFind:Contact"
value="Email,true" />
<input type="hidden" name="liveagent.prechat.findorcreate.map.isExactMatch:Contact"
value="Email,true" />
<input type="hidden" name="liveagent.prechat.findorcreate.map.doCreate:Contact"
value="FirstName,true;LastName,true;Email,true;Phone,true" />

<!-- doCreate example for a Case: create a case to attach to the chat, set the Case Subject
    to the value provided by the customer and set the case's Status and Origin fields -->
<input type="hidden" name="liveagent.prechat.findorcreate.map.doCreate:Case"
value="Subject,true;Status,true;Origin,true;RecordTypeId,true" />

<!-- linkToEntity: Set the record Contact record, found/created above, as the Contact on
    the Case that's created -->
<input type="hidden" name="liveagent.prechat.findorcreate.linkToEntity:Contact"
value="Case,ContactId" />

<!-- showOnCreate: Open the Contact and Case records as sub-tabs to the chat for the agent
    in the Console -->
<input type="hidden" name="liveagent.prechat.findorcreate.showOnCreate:Contact" value="true"
/>
<input type="hidden" name="liveagent.prechat.findorcreate.showOnCreate:Case" value="true"
/>

<!-- saveToTranscript: Associates the records found / created, i.e. Contact and Case, to
    the Live Chat Transcript record. -->
<input type="hidden" name="liveagent.prechat.findorcreate.saveToTranscript:Contact"
value="ContactId" />
<input type="hidden" name="liveagent.prechat.findorcreate.saveToTranscript:Case"
value="CaseId" />

<!-- displayToAgent: Hides the case record type from the agent -->
<input type="hidden" name="liveagent.prechat.findorcreate.displayToAgent:CaseRecordType"
value="false" />

<!-- searchKnowledge: Searches knowledge article based on the text, this assumes that
    Knowledge is setup -->

```

```
<input type="hidden" name="liveagent.prechat.knowledgeSearch:CaseSubject" value="true" />

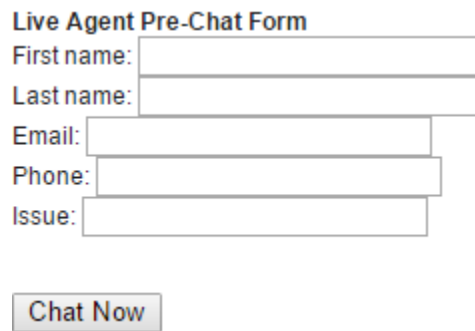
<input type='submit' value='Chat Now' id='prechat_submit' onclick="setName()" />

<!-- Set the visitor's name for the agent in the Console to first and last name provided
by the customer -->
<script type="text/javascript">
    function setName() {
        document.getElementById("prechat_field_name").value =
            document.getElementById("firstName").value + " " +
            document.getElementById("lastName").value;
    }
</script>

<style type="text/css">
p {font-weight: bolder }
</style>

</form>
</apex:page>
```

This code results in a pre-chat form that looks like this screenshot:



**Live Agent Pre-Chat Form**

First name:

Last name:

Email:

Phone:

Issue:

# CHAPTER 6 Implement a Custom Chat Window Using Visualforce

Chat windows are what visitors use to exchange messages with support agents. Each of your Chat deployments includes a chat window. You can create a customized chat window by using Visualforce, and you can add styling and functionality with HTML, CSS, and JavaScript. Avoid linking to Salesforce CSS stylesheets when you customize your chat window. They aren't versioned and can change without notice. Instead, we recommend that you use Visualforce components that mimic Salesforce styles instead of directly referencing the stylesheets. That way, you're always in control of how your chat window looks. See *Using Styles from Salesforce Stylesheets* to learn how to disable our stylesheets.

For more information on using Visualforce, see the [Visualforce Developer Guide](#).

## Chat Visualforce Components

Use Visualforce components to customize the appearance and behavior of chat windows.

### Chat Visualforce Components Code Sample

Use this code sample to test and preview how Visualforce components can help you customize your chat windows.

## Chat Visualforce Components

Use Visualforce components to customize the appearance and behavior of chat windows.

Chat includes the following customizable Visualforce components. These components are placed on your Visualforce form to make certain functionality available and to customize the appearance of the chat window.

Chat windows have various states to inform chat visitors of their chat's progress. The following components let you customize how the chat window looks and behaves in these states to best help your visitors.

Component Name	Description
<code>liveAgent:clientChat</code>	The main parent element for any chat window. This element is necessary to do any additional customization of Chat. This component can only be used once in a Chat deployment.
<code>liveAgent:clientChatAlertMessage</code>	The area in a chat window that displays system alert messages (such as "You have been disconnected").
<code>liveAgent:clientChatMessages</code>	The area in a chat window that displays system status messages, such as "Chat session has been disconnected." Must be used within <code>liveAgent:clientChat</code> . Each chat window can have only 1 message area.
<code>liveAgent:clientChatStatusMessage</code>	The area in a chat window that displays system status messages (such as "You are being reconnected").
<code>liveAgent:clientChatQueuePosition</code>	A text label indicating a visitor's position in a queue for a chat session that's initiated by a button that uses push routing. (This component has no effect on buttons that use pull routing.) Must be used within <code>liveAgent:clientChat</code> . For more information on this component, see <a href="#">Using <code>liveAgent:clientChatQueuePosition</code></a> .

Component Name	Description
<code>liveAgent:clientChatCancelButton</code>	The button within a chat window when the chat is in a waiting state that allows the visitor to cancel the chat. Must be used within <code>liveAgent:clientChat</code> .
<code>liveAgent:clientChatSaveButton</code>	The button in a chat window that a visitor clicks to save the chat transcript as a local file. Must be used within <code>liveAgent:clientChat</code> . Each chat window can have multiple save buttons.
<code>liveAgent:clientChatEndButton</code>	The button within a chat window that a visitor clicks to end a chat session. Must be used within <code>liveAgent:clientChat</code> .
<code>liveAgent:clientChatLog</code>	The area in a chat window that displays the chat conversation to a visitor. Must be used within <code>liveAgent:clientChat</code> . Each chat window can have only 1 chat log.
<code>liveAgent:clientChatInput</code>	The text box in a chat window where a visitor types messages to a support agent. Must be used within <code>liveAgent:clientChat</code> . Each chat window can have only 1 input box.
<code>liveAgent:clientChatSendButton</code>	The button in a chat window that a visitor clicks to send a chat message to an agent. Must be used within <code>liveAgent:clientChat</code> . Each chat window can have multiple send buttons.
<code>liveAgent:clientChatLogAlertMessage</code>	The area in a chat window that displays the idle time-out alert (customer warning) to a visitor.
<code>liveAgent:clientChatFileTransfer</code>	The file upload area in a chat window where a visitor can send a file to an agent. Must be used within <code>liveAgent:clientChat</code> .

For more information about each of these components, see the [Visualforce Component Guide](#).

## Using `liveAgent:clientChatQueuePosition`

The `liveAgent:clientChatQueuePosition` component shows where in the chat queue a visitor is. In order for a chat to enter the queue:

- The button from which the chat was requested must have queuing enabled.
- All online agents (with the relevant skills, if applicable) must be at capacity, causing a queue to form.
- The chat must be in the queue and not yet assigned to an agent.

If all three of these conditions aren't met, `liveAgent:clientChatQueuePosition` doesn't display a value.

## Chat Visualforce Components Code Sample

Use this code sample to test and preview how Visualforce components can help you customize your chat windows.

The following code sample shows a chat window that uses the following components:

- `liveAgent:clientChat`
- `liveAgent:clientChatMessages`
- `liveAgent:clientChatEndButton`

- liveAgent:clientChatLog
- liveAgent:clientChatInput

```
<apex:page showHeader="false">
<style>
#liveAgentClientChat.liveAgentStateWaiting {
// The CSS class that is applied when the chat request is waiting to be accepted
// See "Waiting State" screenshot below
}
#liveAgentClientChat {
// The CSS class that is applied when the chat is currently engaged
// See "Engaged State" screenshot below
}
#liveAgentClientChat.liveAgentStateEnded {
// The CSS class that is applied when the chat has ended
// See "Ended State" screenshot below
}
body { overflow: hidden; width: 100%; height: 100%; padding: 0; margin: 0 }
#waitingMessage { height: 100%; width: 100%; vertical-align: middle; text-align: center;
display: none; }
#liveAgentClientChat.liveAgentStateWaiting #waitingMessage { display: table; }
#liveAgentSaveButton, #liveAgentEndButton { z-index: 2; }
.liveAgentChatInput {
height: 25px;
border-width: 1px;
border-style: solid;
border-color: #000;
padding: 2px 0 2px 4px;
background: #fff;
display: block;
width: 99%;
}
.liveAgentSendButton {
display: block;
width: 60px;
height: 31px;
padding: 0 0 3px;
position: absolute;
top: 0;
right: -67px;
}
#liveAgentChatLog {
width: auto;
height: auto;
top: 0px;
position: absolute;
overflow-y: auto;
left: 0;
right: 0;
bottom: 0;
}
</style>
<div style="top: 0; left: 0; right: 0; bottom: 0; position: absolute;">
<liveAgent:clientChat>
```

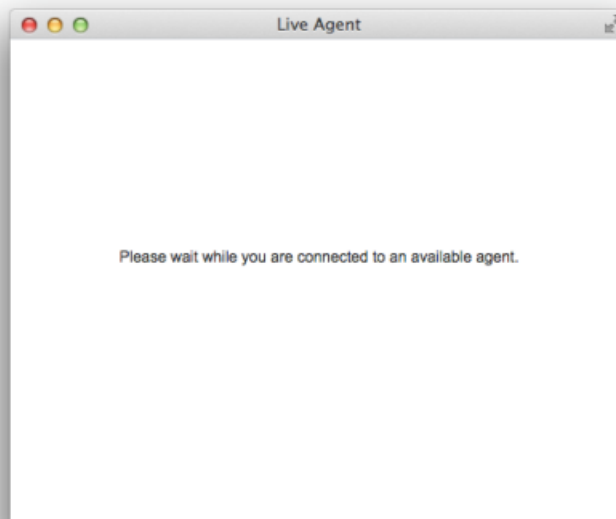
```

<liveAgent:clientChatSaveButton />
<liveAgent:clientChatEndButton />
<div style="top: 25px; left: 5px; right: 5px; bottom: 5px; position: absolute; z-index:
0;">
<liveAgent:clientChatAlertMessage />
<liveAgent:clientChatStatusMessage />
<table id="waitingMessage" cellpadding="0" cellspacing="0">
<tr>
<td>Please wait while you are connected to an available agent.</td>
</tr>
</table>
<div style="top: 0; right: 0; bottom: 41px; left: 0; padding: 0; position: absolute;
word-wrap: break-word; z-index: 0;">
<liveAgent:clientChatLog />
</div>
<div style="position: absolute; height: auto; right: 0; bottom: 0; left: 0; margin-right:
67px;">
<liveagent:clientChatInput /><liveAgent:clientChatSendButton />
</div>
</div>
</liveAgent:clientChat>
</div>
</apex:page>

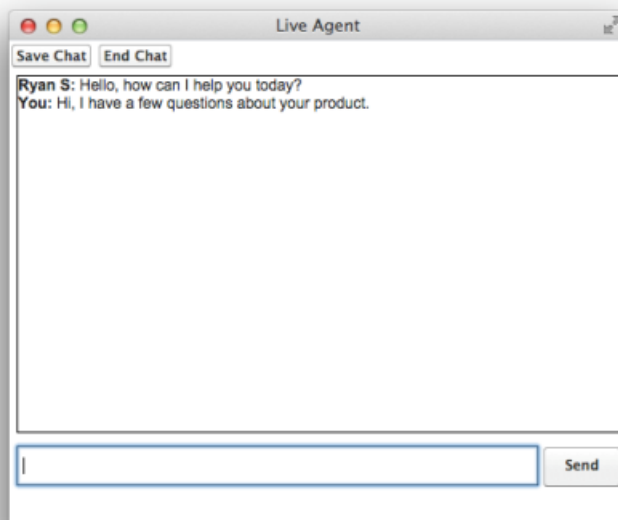
```

For an active chat, this code results in the following chat window states:

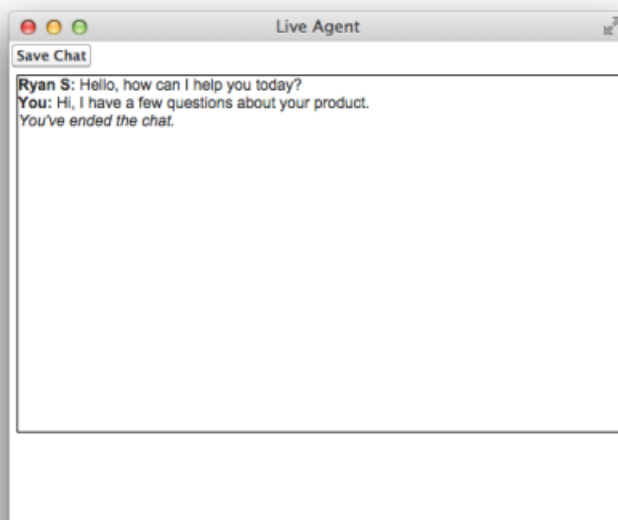
### Chat Waiting



### Chat in Progress



### Chat Ended



# CHAPTER 7 Use Post-Chat to Wrap Up the Chat Interaction with Your Customer

Post-chat pages let share information with customers at the end of a chat session. For example, you can direct your customers to another Web page after they complete a chat with an agent, or forward them to a survey about their chat experience.

You can create a Visualforce page to host your post-chat page, or you can develop a page on your own and add the URL to your chat button configuration. The information in this guide focuses on using Visualforce.

## Post-Chat Code Sample

Test and preview how post-chat pages work for your agents and customers using this code sample.

## Post-Chat Code Sample

Test and preview how post-chat pages work for your agents and customers using this code sample.

You can customize your post-chat page by including the variables you want to be displayed.



**Note:** If the post-chat page is hosted on a site that requires an active session, long-running chats can lead to session timeout. If the customer is on the post-chat page and is redirected to a login page, the post-chat context variables are lost.

Possible Variables	Description
<code>requestTime</code>	The timestamp when the system received the chat request.
<code>startTime</code>	The timestamp when the agent accepted the chat.
<code>deploymentId</code>	The ID of the deployment.
<code>buttonId</code>	The Id of the button that originated the chat.
<code>chatKey</code>	The unique chat key.
<code>lastVisitedPage</code>	The last visited page value sent to the agent.
<code>originalReferrer</code>	The first page the customer visited containing the deployment code.
<code>latitude</code>	Geo location latitude of the chat visitor.
<code>longitude</code>	Geo location longitude of the chat visitor.
<code>city</code>	Geo location city of the chat visitor.
<code>region</code>	Geo location region of the chat visitor.
<code>country</code>	Geo location country of the chat visitor.
<code>organization</code>	Salesforce organization ID that hosted the chat.
<code>disconnectedBy</code>	Reason for ending the chat. Possible values: <ul style="list-style-type: none"><li>• <code>agent</code> - the agent terminated the chat</li></ul>

Possible Variables	Description
	<ul style="list-style-type: none"> <li>• <code>client</code> - the chat visitor terminated the chat</li> <li>• <code>error</code> - the system encountered an error that disconnected the chat</li> <li>• <code>clientIdTimeout</code> - the chat visitor didn't answer within the allotted time (must have Idle Timeout configured)</li> <li>• <code>agentsUnavailable</code> - there are no agents available to receive the chat or there is no room in the queue</li> </ul>
<code>windowLanguage</code>	Language of the window as configured in the chat button.
<code>chatDetails</code>	A JSON representation of the chat data.
<code>transcript</code>	A plain text copy of the transcript.
<code>attachedRecords</code>	A list of IDs attached to the chat session in JSON array format.
<code>error</code>	Description of any errors that occurred during the chat.

This code sample creates a post-chat page that includes basic information about the chat.

```
<apex:page showHeader='false'>
    <div id='details'>
        <!-- This will present all the post chat parameters available to this page -->
        <h1>Post Chat Page</h1>
        <p>
            <!-- These variables are passed to the post-chat page and can be used to
customize your post-chat experience -->
            Request Time: <apex:outputText id='c_rt'
value='{{$CurrentPage.parameters.requestTime}}' /><br/>
            Start Time: <apex:outputText id='c_st'
value='{{$CurrentPage.parameters.startTime}}' /><br/>
            Deployment Id: <apex:outputText
value='{{$CurrentPage.parameters.deploymentId}}' /><br/>
            Button Id: <apex:outputText value='{{$CurrentPage.parameters.buttonId}}'
/><br/>
            Chat Key: <apex:outputText value='{{$CurrentPage.parameters.chatKey}}'
/><br />
            Last Visited Page: <apex:outputText
value='{{$CurrentPage.parameters.lastVisitedPage}}' /><br/>
            Original Referrer: <apex:outputText
value='{{$CurrentPage.parameters.originalReferrer}}' /><br/>
            <!-- When the GeoLocation is not available this will appear as Unknown
-->
            Latitude: <apex:outputText value='{{$CurrentPage.parameters.latitude}}'
/><br/>
            Longitude: <apex:outputText value='{{$CurrentPage.parameters.longitude}}'
/><br/>
            City: <apex:outputText value='{{$CurrentPage.parameters.city}}' /><br/>
            Region: <apex:outputText value='{{$CurrentPage.parameters.region}}' /><br/>
            Country: <apex:outputText value='{{$CurrentPage.parameters.country}}'
/></div>
</apex:page>
```

```

/><br/>
        <!-- End of GeoLocation information -->
        Organization: <apex:outputText
value='{{$CurrentPage.parameters.organization}}' /><br/>
        Disconnected By: <apex:outputText
value='{{$CurrentPage.parameters.disconnectedBy}}' /><br/>
        Window Language: <apex:outputText
value='{{$CurrentPage.parameters.windowLanguage}}' /><br/>
        Chat Details: <apex:outputText
value='{{$CurrentPage.parameters.chatDetails}}' /><br />
        Transcript: <apex:outputText value='{{$CurrentPage.parameters.transcript}}'
/><br/>
        Attached Records : <apex:outputText
value='{{$CurrentPage.parameters.attachedRecords}}' /><br />
        Error: <apex:outputText value='{{$CurrentPage.parameters.error}}' /><br
/>
    </p>
</div>
<hr/>
<!-- Message to show if chat is abandoned -->
<div id='abandoned' style='display: none;'>
    We are sorry you decided to leave the chat. Feel free to initiate a new session.

</div>
<!-- Code to decide if we show the abandoned block or the full data -->
<script type='text/javascript'>
    var requestTime = '{{$CurrentPage.parameters.requestTime}}';
    var startTime = '{{$CurrentPage.parameters.startTime}}';
    // when startTime doesn't have a value, it means the chat never started
    if (!startTime) {
        document.getElementById('details').style.display = 'none';
        document.getElementById('abandoned').style.display = 'block';
    }
</script>

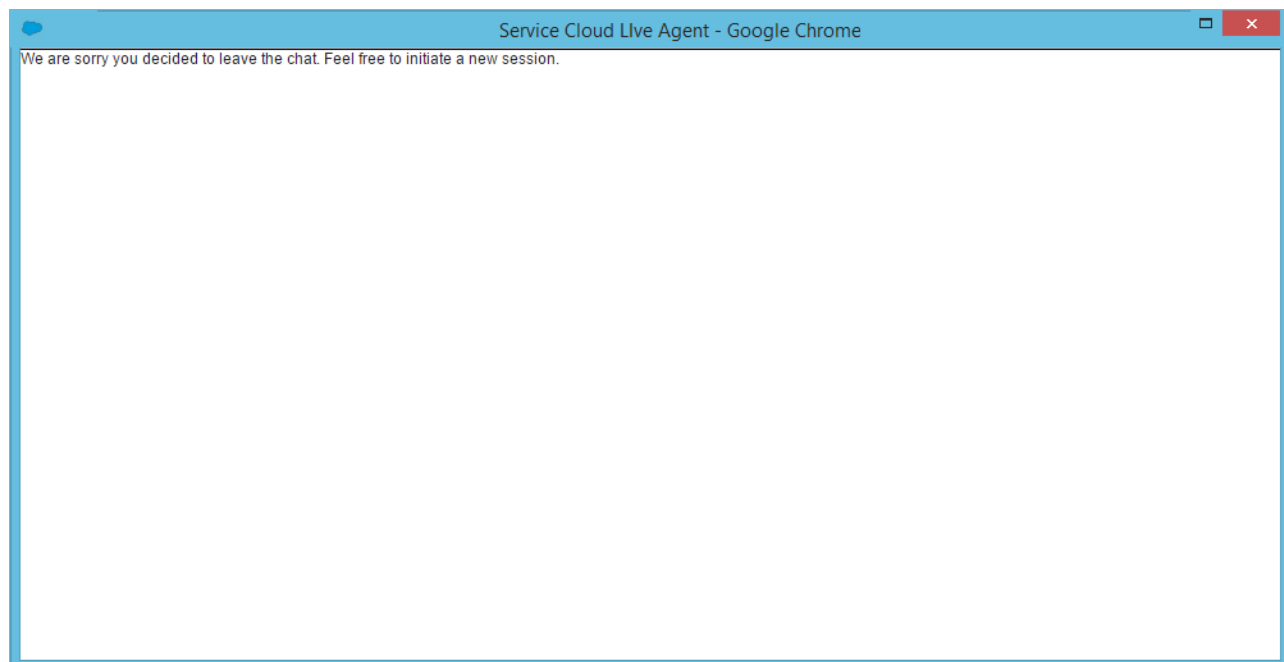
</apex:page>

```

This code results in the following post-chat page for the agent:



This message shows if the chat is abandoned:



# CHAPTER 8 Set Up Direct-to-Agent Chat Routing with the Deployment APIs

You can route chats that originate from a specific button or invite to a specific agent by editing a few parameters in the Chat Deployment API. You can set chats to fallback to another button or queue if the specified agent isn't available.

Direct-to-agent routing lets your agents provide visitors with a way to contact them directly. This is useful when a visitor's issue requires a follow-up conversation, because the agent can provide a direct-to-agent link that ensures the visitor won't have to start over with a new agent.

## [Direct-to-Agent Routing with the Deployment APIs](#)

You can set up direct-to-agent routing that lets you to route chats from a specific button to a single agent.

## [Fallback Routing in Pre-Chat Forms](#)

Set fallback routing rules in pre-chat forms in case the agent specified for direct-to-agent routing isn't available when a chat is received.

## Direct-to-Agent Routing with the Deployment APIs

---

You can set up direct-to-agent routing that lets you to route chats from a specific button to a single agent.

Use the following Deployment API methods to set up direct-to-agent routing with fallback routing enabled in case the agent isn't available for chat.

- `startChat`
- `startChatWithWindow`
- `showWhenOnline`
- `showWhenOffline`

## [Direct-to-Agent Routing Code Sample](#)

Implement direct-to-agent routing using the Deployment API.

## Direct-to-Agent Routing Code Sample

Implement direct-to-agent routing using the Deployment API.

The following code sample shows you how to set up direct-to-agent so your agents can send visitors a "Chat with Me" link.

```
<apex:page standardController="User" showHeader="false">
  <h1>Direct-to-Agent Chat with {!user.name}</h1>

  <!-- dta_online is displayed whenever the specific agent is available to chat. -->
  <div id="dta_online" style="display: none;">

    <!-- A valid button is required here even though it's direct-to-agent - some button
    settings still apply. -->
    <!-- {!!left(user.id,15)} is needed to truncate an 18-char ID to the 15-char version
    that Chat uses. -->
```

```

    <a href="javascript://Chat" onclick="liveagent.startChat('573D01234567890',
'{!!left(user.id,15)}')">Chat with {!!user.name}!</a>

</div>

<!-- dta_offline is displayed if the specific agent is unavailable. -->
<div id="dta_offline" style="display: none;">

    <!-- button_online is displayed if any agents are available to chat for the button.
-->
    <div id="button_online" style="display: none;">Sorry, {!!user.name} is not available.
If you&rsquo;d like, you can
    <a href="javascript://Chat" onclick="liveagent.startChat('573D01234567890')">start
a chat with another agent</a>.
    </div>

    <!-- button_offline is displayed if no agents are available to chat for the button.
-->
    <div id="button_offline" style="display: none;">Sorry, all agents (including
{!!user.name}) appear to be unavailable.</div>

</div>

<!-- Change the domain name to the correct one for your org. -->
<script type='text/javascript'
src='https://c.lalsl.salesforceliveagent.com/content/g/deployment.js'></script>

<script type='text/javascript'>
    /* The following calls pass the user ID as the first argument and show whether the
agent is online.*/
    liveagent.showWhenOnline('{!!left(user.id,15)}', document.getElementById('dta_online'));

    liveagent.showWhenOffline('{!!left(user.id,15)}', document.getElementById('dta_offline'));

    /* The following calls pass the button ID as the first argument and show whether
any agents are available to handle chats from the button. */
    liveagent.showWhenOnline('573D01234567890', document.getElementById('button_online'));

    liveagent.showWhenOffline('573D01234567890', document.getElementById('button_offline'));

    /* This domain and the IDs are specific to your org, so replace these with your own.
*/
    liveagent.init('https://d.lalsl.salesforceliveagent.com/chat', '572D01234567890',
'00DD01234567890');
</script>
</apex:page>

```

When you use this code sample with your org and call it ChatWithMe, agents can create a link that sends a chat request directly to them.

<http://your.website/ChatWithMe?id=005D01234567890>

You can make it even easier for agents to send a “chat with me” link by creating a Quick Text message that any agent can use:

[http://your.website/ChatWithMe?id={!User\\_ID}](http://your.website/ChatWithMe?id={!User_ID})

The User ID spot in the link is automatically filled with the User ID of any agent who uses the Quick Text.

## Fallback Routing in Pre-Chat Forms

Set fallback routing rules in pre-chat forms in case the agent specified for direct-to-agent routing isn't available when a chat is received.

What if you set up direct-to-agent routing, but the agent you specified to receive the chats isn't available? If the agent is offline, those chats might be lost.

Luckily, if your organization uses pre-chat forms to gather customer information, you can set up fallback routing options for a button that uses direct-to-agent routing.

This code sample demonstrates how to route chats using another button's default routing rules if the agent assigned to that button isn't available. Let's take a look at this section of code:

```
<h1>Pre-chat Form</h1>
<form method='post' id='prechatForm'>
  Name: <input type='text' name='liveagent.prechat.name' id='prechat_field' /><br />

  Email Address: <input type='text' name='liveagent.prechat:Email' /><br />
  Department: <select name="liveagent.prechat.buttons">
    <!-- Values are LiveChatButton and/or User IDs. -->
    <option value="573D01234567890">Route through button 573D01234567890</option>
    <option value="005D01234567890">Route to agent 005D01234567890</option>
    <option value="005D01234567890_573D01234567890">Route to agent 005D01234567890
      with Fallback to button 573D01234567890</option>
```

In this section, we specify that chats originating from the button should be routed to an agent with agent ID 005xx000001Sv1m. If that agent isn't available, incoming chats are routed based on the default routing rules for the button with button ID 573xx0000000001.

### [Fallback Routing Code Sample](#)

Implement fallback routing rules in pre-chat forms so visitors can chat with another agent with the specified agent isn't available.

## Fallback Routing Code Sample

Implement fallback routing rules in pre-chat forms so visitors can chat with another agent with the specified agent isn't available.

This sample creates a pre-chat form with fallback routing rules enabled. This form:

- Requests a visitor's name and email address.
- Displays that information in the chat log and in the chat request window.
- Displays either a new or existing Contact record with the customer's information in a new tab in the Salesforce console. The customer's name and email address are used to find an existing record. If no existing record is found, a new record is created and populated with the customer's information.
- Displays a drop-down list that lets visitors choose a different Chat button through which to route their chat request.
- Routes chats directly to a specific agent, or, if that agent is unavailable, routes those chats based on the button's default routing rules.

```
<apex:page showHeader="false">

<!-- This script takes the endpoint URL parameter passed from the deployment page
```

```

    and makes it the action for the form -->
<script type="text/javascript">

(function() {
    function handlePageLoad() {
        var endpointMatcher = new RegExp("[\\?\\&]endpoint=([^\&]*)");
        var domainMatcher = new
RegExp("^(https?:\\|\\|(.+?)\\.?(salesforce|salesforce|liveagent)\\.com(\\|\\|\\|A-Za-z0-9\\|\\|\\|_\\.~:~\\|\\|?#\\|\\|@!$%'\\"))\\|\\|\\|+;\\|\\|=]*?)");

        var endpointAttr = endpointMatcher.exec(document.location.search)[1];
        // if the endpoint domain is valid
        if (domainMatcher.test(decodeURIComponent(endpointAttr))) {
            document.getElementById('prechatForm').setAttribute('action',
                decodeURIComponent(endpointAttr.replace("javascript:", "")));
        } else {
            // invalid endpoint domain, set the action to empty
            console.error("invalid domain: " + endpointAttr);
            document.getElementById('prechatForm').setAttribute('action', "");
        }
    }
    if (window.addEventListener) {
        window.addEventListener('load', handlePageLoad, false);
    } else {
        window.attachEvent('onload', handlePageLoad, false);
    }
})();
</script>

<h1>Pre-chat Form</h1>
<form method='post' id='prechatForm'>
    Name: <input type='text' name='liveagent.prechat.name' id='prechat_field' /><br />

    Email Address: <input type='text' name='liveagent.prechat:Email' /><br />
    Department: <select name="liveagent.prechat.buttons">
        <!-- Values are LiveChatButton and/or User IDs. -->
        <option value="573D01234567890">Route through button 573D01234567890</option>
        <option value="005D01234567890">Route to agent 005D01234567890</option>
        <option value="005D01234567890_573D01234567890">Route to agent 005D01234567890
            with Fallback to button 573D01234567890</option>
    </select><br />
    <input type='submit' value='Request Chat' id='prechat_submit' />
</form>

</apex:page>

```